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THE FOLIO

University of Alberta, Edmonton

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A MAJOR BREAKTHROUGH

A team of Canada Department of Agriculture scientists has discovered and developed a new broad-spectrum antibiotic which promises to be a major weapon against disease.

The new antibiotic, called Myxin, is the result of several years' work done in the CDA's Research Branch by DR. F. D. COOK, Associate Professor of Soil Microbiology at the University of Alberta, Dr. E. A. Peterson, a University of Alberta graduate in 1950 and 1952, and Dr. D. C. Gillespie.

Myxin is noteworthy for the following reasons: (a) In laboratory tests, it attacks a much wider variety of disease-causing organisms than any other known antibiotic. (The extent of its effectiveness is not yet known - especially in the field of human disease.) (b) It is extremely powerful. At concentrations of only a few parts per million, the antibiotic, in lab tests, has prevented growth of many bacteria, yeasts, and moulds known to be responsible for diseases in people, plants, and animals. (c) Because of its ease of production, it is probable that it will find wide use on controlling crop diseases for which treatment by antibiotics has not been economical up to now. (d) It is structurally different from existing antibiotics. This means that a new field of antibiotic research has been opened up and quite probably a new generation of antibiotics has been uncovered.

Myxin has been tested in the laboratory with success against 34 species of bacteria, 49 species of fungi, 12 species of antinomycetes, and 12 species of yeast.

In the test-tube, it was effective against the organism responsible for tuberculosis and against the infectious bacterium, *Staphylococcus aureus*, which is troublesome in hospitals and currently resistant to other antibiotics. It is also extremely effective in lab tests against many species of plant pathogenic bacteria which cause such diseases as ring rot of potatoes, alfalfa wilt,



drs. peterson, cook, gillespie, hochster

fireblight of fruit trees, halo blight of oats, and fungi which cause such diseases as cereal root rots.

The organism which produces Myxin is a member of a group of soil bacteria known as myxobacters. The one-celled microbe was found by Dr. Cook when he was doing basic research on the relationship between soil bacteria, soil fertility, and the health of plants. Dr. Cook found that these myxobacters prevented growth of many other organisms that were causing serious crop diseases. This growth prevention was the result of the production by the myxobacters of lytic enzymes that dissolved other bacteria. Later he saw that one strain of myxobacter produced no lytic enzymes but rather a red colored material which prevented the growth of bacteria.

Dr. Gillespie successfully extracted this colored material from broth in which myxobacters had grown. Tests by Dr. Cook and Dr. Peterson showed that this extract had the same killing effect that had been demonstrated by the living culture.

Dr. Gillespie developed methods of production, isolation, and purification of the antibiotic and succeeded in crystallizing it. This made it possible to carry out more extensive tests.

Further studies by Dr. Peterson showed that Myxin may be useful in combating plant diseases through seed treatment or by spraying the antibiotic on plant foliage.

FACULTY NOTES

the president

Dr. Walter H. Johns, President of the University, is rapidly recovering from a slight heart condition and it is anticipated that he will return to active duty about mid-June.

In his absence, the work of the President's office has been assumed by Dr. Max Wyman, Vice-President (Academic), with full power to act.



Winners of ten fellowships awarded under the British American Oil Fellowship-Scholarship Plan and available to Canadian graduate students for the 1966-67 academic year were announced recently by the Association of Universities and Colleges of Canada.

Including previous winners, a total of 24 students will benefit from an expenditure of nearly \$70,000 during the coming academic year.

Each B-A fellowship winner receives \$3,000 for a year of post-graduate study at a Canadian university of his choice. In addition, the company pays a \$1,000 grant-in-aid to the receiving university.

This year's recipients at the University include: Arthur O. Olson, Cranford, Alberta, an M.Sc. candidate in plant biochemistry; and John O. Towler, Edmonton, a Ph.D. candidate in education.



Excavation of the Fullerton Site, Westaskiwin. Under the supervision of Mr. Fraser Taylor, from June 1 to Sept. 15. Those interested may contact the Extension Dept., University of Alberta. Registration fee (to cover expenses of the dig), \$25.00.

Mapping of Boulder Outline Figures. Under the direction of Dr. L. A. Bayrock, from July 7 to July 13. This year the site is at Pekowki Lake, south of Medicine Hat.



Professor Henry George Glyde, Head of the Fine Arts Department at the University of Alberta, a man who has made a tremendous contribution in the field of art and art education in the province, is to be awarded the University of Alberta National Award in Art for 1966.

The Award is presented annually to persons who have made outstanding contributions in the fields of music, letters, or painting and related arts. Past recipients of the Award include Sir Ernest MacMillan, A. Y. Jackson, the Rt. Hon. Vincent Massey, Mazo de la Roche, Lorne Pierce, Hugh MacLennan, Lois Marshall, W. G. Hardy, C. F. Comfort, Marius Barbeau, Will R. Bird, and others.

The Award will be presented to Professor Glyde during the summer at the Banff School of Fine Arts. From 1936-46, Professor Glyde was a staff member with the Institute of Technology and Art in Calgary and in 1946 he joined the staff of the University of Alberta in Edmonton. Appointed full Professor in 1949, the same year he was made a member of the R. C. A., Mr. Glyde was named curator of the University Art Gallery and Museum in 1950.

Since 1955, Professor Glyde has been Head of the Department of Fine Arts. In 1958, he was awarded a Senior Overseas Fellowship by the Canada Council.

Professor Glyde is retiring from University staff this August and in view of his prominence and popularity on the campus, he has been invited by the Senior Class Committee to serve as Honorary President of the graduating class this Spring.



There is a new Students' Union project at the University of Alberta known as the Students' Union Tour Bureau.

The purpose of the Bureau is to provide facilities to conduct organized private tours of the campus, and the service is available to any groups wishing to arrange a visit to the University.

The Golden Key Society under its President G. Burn Evans is in charge, and members will act as hosts and hostesses to visiting groups. The bureau will provide all types of guided tours to allow groups to see and understand those parts of the campus they are interested in. In this way, the public will be able to visit the campus on an organized basis on their own time.



A Doctor of Musical Arts degree from the University of Southern California will be conferred at Spring Convocation on Arthur B. Crighton, Associate Professor of Music at the University of Alberta.

Professor Crighton joined the University staff in Edmonton in 1949. He received his Baccalaureate in music from the University of Toronto in 1949 and his Master of music degree from the University of Southern California in 1964.



Professor Charles S. Brant has been awarded a research grant by the Canada Council to support summer research in Greenland on Eskimo education and cultural change.

folio

Mrs. W.B. Dymond (née Margaret Richards) former editor of "The Folio" is now resident in Ottawa. Regular issues will continue to make their appearance twice monthly with copy deadline on the first and fifteenth of every month. Material to be included in "The Folio" should be mailed directly to A.G. Markle at the Alumni Office, Students' Union Building, (local 224).

GRANTS & SCHOLARSHIPS



The Alberta Agricultural Research Trust was officially established recently with the presentation of a cheque for five hundred thousand dollars to President John by the Honourable H.E. Strom, right, Minister of Agriculture.

The half-million dollar initial establishment grant will be followed by future annual grants of \$100,000 to \$200,000 from the provincial government. These funds will be used to assist the Faculty of Agriculture at the University of Alberta to expand its research efforts. Already 22 applications totalling approximately \$98,000 have been approved for grants by the Interim Board of Trustees on the recommendation of the Grants Committee.

In addition to funds received from the province, the Trust may also accept support for specific projects or any agricultural research from government agencies, foundations, commercial organizations, commodity groups, professional or other associations, and from individuals. Contributions from outside sources will be matched by the Alberta Department of Agriculture on a dollar for dollar basis up to \$200,000 a year. The Department's contribution will never be less than \$100,000 annually.

Establishment of the Trust and an explanation of its procedures for receipt of funds have not been advertised as yet, but contributions from sources outside the Department of Agriculture already total over \$10,000.



The Faculty of Medicine has announced a new scholarship program established and financed by the New York Life Insurance Company.

Dean Walter C. MacKenzie says the University school is one of 11 medical colleges in the United States and Canada to be invited to participate in the program.

Starting this fall, the program will provide one scholarship for a member of each new medical class who would otherwise have serious financial problems in entering a career in medicine. An unusual aspect of the scholarship program is that the amount of each grant will depend on a budget worked out by Dean MacKenzie with the scholarship recipient. Each scholarship is intended to cover tuition, room, board, fees, books and equipment.

According to the terms established by New York Life, the Faculty of Medicine will be solely responsible for the selection of scholarship recipients. All students applying for admission to the Faculty will be eligible to compete for this award, which will be awarded on the basis of scholarship and financial need.

The Faculty of Medicine presently is able to accept 105 students each year. Seen accepting the initial scholarship cheque from S. Ross Johnson, New York Life supervisor, is Dr. D. F. Cameron, right, Associate Dean of Medicine.



The United Grain Growers has awarded, through the Alberta Agricultural Research Trust, a \$5,000 John E. Brownlee Memorial Research Grant to the University to support a study of farm trends and prospects being carried out by the Department of Agricultural Economics. The U.G.G. made a similar grant supporting this research last year.

Dr. C.F. Bentley (left), Dean of Agriculture, received the grant on behalf of the University, from Allan Smith, Red Deer, U.G.G. Director. He stated that it would be used for further research on the economic growth and adjustment potentials of Alberta agriculture.

The farm trends and prospects study, which has been underway for the past 18 months, concerns the changing demands for farm products and the production potentials of Alberta agriculture in supplying this demand. Further work will be done on the adjustments needed in production and marketing to meet changing demand and supply conditions. The research was designed to provide valuable background information for economic development and adjustment programs in agriculture.

Two research reports from the study have been published: (1) "The People and Resources of Northeastern Alberta," Agricultural Economics Research Bulletin No. 2, University of Alberta; and (2) "The Economic Impact of Wheat Breeding in the Prairie Provinces," Canadian Journal of Agricultural Economics, Vol. 13, No. 2, (1965). Both reports were prepared by Dr. W. M. Schultz, who has been responsible for carrying out the research.

staff changes

The following full-time appointments, resignations, etc. were approved at the meeting of the Board of Governors on May 13, 1966.

APPOINTMENTS

ANIMAL SCIENCE: Effective July 1/66: L. P. Milligan, Assistant Professor; A. J. F. Webster, Assistant Professor.
 ANTHROPOLOGY: Dr. Harold Barclay, Associate Professor, effective July 1, 1966.
 ART: Effective July 1/66: Dr. H. J. Dow, Visiting Professor; Jonathan Knowlton, Assistant Professor; Jeremy Moore, Assistant Professor.
 BIOCHEMISTRY: Miss E. W. Garbutt, Research Associate, effective Apr. 1/66.
 BUS ADMIN & COMMERCE: C. G. Hoskins, Assistant Professor, effective July 1, 1966.
 CHEM & PET ENGINEERING: Dr. R. K. Wood, Assistant Professor, effective July 1/66.
 CHEMISTRY: Effective April 1/66: Dr. J. L. W. Jones, Postdoctoral Fellow; Dr. Elizabeth Lown, Postdoctoral Fellow; Dr. J. C. -N. Ma, Postdoctoral Fellow; Dr. James Russell, Postdoctoral Fellow.
 CLINICAL PATHOLOGY: Dr. D. J. Campbell, Assistant Professor, effective April 1/66.
 EDUCATIONAL PSYCHOLOGY: Effective July 1/66: J. K. Bishop, Associate Professor; F. N. Dyer, Assistant Professor; (Mrs.) Jean L. Dyer, Assistant Professor.
 ENGLISH: E. D. Blodgett Jr., Assistant Professor, effective July 1/66.
 HOUSEHOLD ECONOMICS: Effective July 1/66: (Mrs.) Helen S. Bentley, Associate Professor; Miss Roberta Cheney, Lecturer; Miss Nancy Kerr, Assistant Professor; Miss Verna Lefebvre, Assistant Professor; (Mrs.) Caroline G. Stinson, Lecturer.
 LAW: M. J. Sychuk, Assistant Professor, effective July 1/66.
 LIBRARY: M. M. Duncan, Librarian, effective Sept. 1/66; Miss M. J. Howell, Librarian, effective July 1/66; Miss A. L. Swanson, Librarian, effective June 15/66.
 MEDICINE: Dr. R. F. Taylor, Assistant Professor (Geographic), effective July 1/66.
 MINING & METALLURGY: L. R. Plitt, Assistant Professor, effective July 1/66.
 PATHOLOGY: Miss B. A. Masuda, Instructor in Medical Laboratory Science, effective May 1/66.
 PHILOSOPHY: Effective July 1/66: Dr. William Eastman, Assistant Professor; D. C. Hicks, Associate Professor.
 PHYSICS: Dr. W. K. Dawson, Assistant Chairman of the Department, effective May 1/66; Dr. Livio Verdini, Associate Professor, effective July 1/66.

ROMANCE LANGUAGES: J. J. Diemer, Lecturer, effective May 16/66.
 SECONDARY EDUCATION: Effective July 1/66: J. B. Bell, Associate Professor; M. A. Clark, Assistant Professor.
 SOCIOLOGY: Dr. George Kupfer, Assistant to the Acting Head of the Department, effective July 1/66.
 SURGERY: Dr. R. S. Smith, Research Associate, effective July 1/66; Dr. L. P. Sterns, Lecturer, effective Sept. 1/66.
 THEORETICAL PHYSICS INSTITUTE: Effective Sept. 1/66: P. D. Loly, Postdoctoral Fellow; Dr. K. C. Sharma, Postdoctoral Fellow; Stefan Zukotynski, Postdoctoral Fellow.
 VOC & INDUS EDUCATION: D. W. Manuel, Lecturer, effective Sept. 1/66.
 ZOOLOGY: Dr. S. E. Zalik, Assistant Professor, effective July 1/66.

REAPPOINTMENTS

AGRICULTURAL ECONOMICS: Dr. W. M. Schultz, Associate Professor, effective July 1/66.
 ECONOMICS: Dr. M. S. Noorzoy, Assistant Professor, effective June 15/66.
 ENGLISH: (Mrs.) Diane E. Bessai, Assistant Professor, effective July 1/66.
 HOUSEHOLD ECONOMICS: Miss Judith M. Strang, Assistant Professor, effective Aug. 1/66.
 PAEDIATRICS: Effective Sept. 1/66: Dr. H. B. Armstrong, Assistant Clinical Professor; Dr. E. C. Burchak, Instructor; Dr. James Calder, Clinical Professor; Dr. N. F. Duncan, Assistant Clinical Professor; Dr. T. A. Gander, Clinical Professor; Dr. R. A. Poirier, Lecturer; Dr. G. W. Selby, Instructor; Dr. M. I. Tedeschini, Instructor; Dr. P. F. Wilcock, Instructor.
 PHYSIOLOGY: Dr. R. H. Wensel, Lecturer, effective July 1/66.
 ROMANCE LANGUAGES: D. P. Fearon, Lecturer, effective Sept. 1/66.
 VOC & INDUS EDUCATION: Effective September 1/66: M. W. Petruk, Lecturer; L. J. Shields, Lecturer.
 ZOOLOGY: Dr. Jean K. Lauber, Assistant Professor, effective July 1/66.

APPOINTMENT EXTENSIONS

PHYSICS: Dr. R. K. Pathria, Visiting Associate Professor, effective Aug. 1/66 for one year; Dr. P. C. Sood, Visiting Associate Professor, effective Sept. 1, 1966 for one year.

PROMOTIONS

CIVIL ENGINEERING: P. F. Adams to Associate Professor, effective July 1/66.
 DENTISTRY: Dr. Z. M. Pawliuk to Assistant Professor, effective April 1/66.
 PSYCHIATRY: Effective April 1/66: Dr. T. C. Michie, to Clinical Professor; Dr. A. R. Schrag to Associate Clinical Professor.

LEAVES OF ABSENCE

MATHEMATICS: Effective Sept. 1/66 for one year: Dr. M. G. Murdeshwar, Assistant Professor; Dr. M. V. Subbarao, Associate Professor.
 NURSING: Miss Peggy A. Field, Lecturer, effective Sept. 1/66 for one year.
 PHILOSOPHY: R. N. Bosley, Assistant Professor, effective Sept. 1/66 for one year.
 VIVARIUM: Dr. D. C. Secord, Associate Professor and Director, effective Sept. 1/66 for nine months.
 VOC & INDUS EDUCATION: J. E. Gallagher, Assistant Professor, effective Sept. 1/66 for one year.

WITHOUT DEFINITE TERM

AGRICULTURAL ENGINEERING: T. A. Preston, Associate Professor, effective July 1/66.
 BIOCHEMISTRY: Dr. Alexander Hampton, Associate Professor, effective April 1, 1966; Dr. J. F. Henderson, Associate Professor, effective July 1/66.
 EDUCATIONAL FOUNDATIONS: Dr. G. R. Eastwood, Associate Professor, effective July 1/66.
 EXTENSION: G. A. Eyford, Assistant Director, effective Sept. 1/65.
 GENETICS: Effective April 1/66: Dr. John Kuspira, Professor; Dr. G. W. R. Walker, Professor.
 PAEDIATRICS: Dr. Peter Bowen, Associate Professor, effective July 1/66.
 POLITICAL SCIENCE: Effective July 1/66: Dr. F. C. Engelmann, Professor; Dr. S. M. M. Qureshi, Associate Professor.
 SECONDARY EDUCATION: Dr. J. O. Regan, Assistant Professor, effective July 1, 1966.

RESIGNATIONS

ANATOMY: Dr. D. A. Ollerich, Assistant Professor, effective July 31/66.
 ANIMAL SCIENCE: Dr. T. D. D. Groves, Assistant Professor, effective Aug. 15, 1966.
 BUS ADMIN & COMMERCE: A. O. Saffel, Associate Professor, effective Aug. 31, 1966.
 CHEM & PET ENGINEERING: Dr. R. A. Ritter, Associate Professor, effective June 30/66.
 ECONOMICS: G. K. Goundry, Professor and Acting Head, effective Aug. 31/66.
 ELECTRICAL ENGINEERING: I. G. Sarsanszky, Assistant Professor, effective July 31/66.
 ELEMENTARY EDUCATION: Dr. J. W. G. Ivany, Assistant Professor, effective Aug. 31/66.
 GERMANIC LANGUAGES: Effective Aug. 31/66: Dr. J. M. Ellis, Assistant Professor; Dr. Ronald Wardhaugh, Assistant Professor.
 HISTORY: (Mrs.) Margaret A. Bax, Associate Professor, effective June 30/66.
 MATHEMATICS: Dr. T. A. Burton, Assistant Professor, effective Aug. 31/66.
 MEDICINE: Dr. M. T. F. Carpendale, Clinical Professor and Acting Director of Rehabilitation Medicine, effective July 31/66.

distinguished guests

Dr. H.T. Coutts and Professor Orest Starchuk delivered guest lectures in May at the University of Kiev in Russia.

Dr. Coutts, Dean of the Faculty of Education, and Professor Starchuk, Associate Professor of Russian and Head of Slavonic Languages, visited the Ukraine University as part of an exchange program.

Prior to their departure they had an opportunity to meet two Russian guests from Kiev University, seen chatting with them in the President's Office. Left to right, Dr. A.M. Marinitch, Dean of Faculty of Earth Sciences, University of Kiev; Professor Orest Starchuk, Slavonic Languages; Dr. A. Z. Zhmudsky, Academic Vice-President of Kiev University; and Dr. Coutts, Dean, Faculty of Education.

Two internationally known Soviet Ukrainian scientists recently visited the University of Alberta as representatives of the Shevchenko State University of Kiev as part of the unique exchange agreement between the two Universities. They were Dr. A. Z. Zhmudsky, Academic Vice-President, and Dr. A.M. Marinitch, Dean of the Faculty of Earth Sciences.

Dr. Zhmudsky is a distinguished physicist, well-known for his work in X-rays and the physics of metals. Dr. Marinitch is both a geologist and a geographer, specializing in the study of land formation. Both have worked also in the history and philosophy of science.

They presented a collection of birds and mammals of the Ukraine to the Zoology Department of the University of Alberta, on behalf of the Kiev University zoologists. The presentation was received by Dr. J. R. Nursall, Head of Zoology at the University of Alberta in the presence of Dr. M. Wyman, Academic Vice-President, and Dean D.M. Ross of the Faculty of Science. Dr. Nursall expressed great pleasure at the gift and predicted that it would be of great benefit to the work of University of Alberta zoologists. The material was added immediately to the Zoological Museum. In turn, Dr. Nursall presented books on the birds and mammals of Alberta.

Seen in presentation photo, left to right: Prof. M. Gulutzan, Educational Psychology; Dr. Zhmudsky; Dr. Marinitch; Prof. L. Lorch, Mathematics; Prof. Nursall, and Prof. O. Starchuk, Slavonic Languages.



...with mutual rapport



calendar of events

June 3 - T.G.I.F. Night at the Faculty Club - Chicken Chow Mien.

June 4 - Western Board of Music Examinations until June 11th.

June 6 - Department of Extension sponsors "Colour and Colour Control," a painting workshop in acrylic polymer techniques. Morning and afternoon sessions for professional artists and advanced students. Instructor is Ronald du Bois, Oklahoma State University.

Department of Extension sponsors a refresher course for Municipal Administrators at the Banff School of Fine Arts to June 8th.

June 7 - Public lecture on art by Ronald du Bois, Math-Physics Bldg., room 126 at 8:30 p.m.

June 9 - Department of Extension sponsors a School Secretaries' Short Course and Trustees' Seminar at the Banff School of Fine Arts until June 11th.

June 10 - T.G.I.F. Night at the Faculty Club - Smorgasbord.

classified

in memoriam

Dr. John Elmer Drevdahl, Associate Professor in the Department of Psychology, died April 26, 1966, in the University Hospital, one week before his 43rd birthday. He leaves a wife, Mary, and a two-year old son, John.

Dr. Drevdahl joined the staff at the University of Alberta only last fall. A lengthy illness prevented many of us from knowing him well as a man. Nevertheless, we are all aware of his splendid accomplishments as a scholar and teacher. His many papers revealing the results of investigations of how creative factors condition the behavior of diverse segment of the human population will long be remembered. The work in which he was engaged at the time of his death will perhaps be his most significant. He was in the process of relating creativity and eminence in politics, business, science, and humanitarian services. This monumental study will provide psychological comparisons of cabinet ministers, senators, corporation presidents, Nobel Scientists and leading scholars, inventors and renowned artists. His field is in sore need of the type of experimental contribution he was prepared to make. The forward progress of humanity has been arrested by his premature death.

Dr. T. M. Nelson

WANTED TO RENT

Three-bedroom unfurnished house, preferably within walking distance of Education Building, for family returning late August to U of A from sabbatical leave. Replies to Prof. C. C. Anderson, 149 North Harrison St., Princeton, N. J., U. S. A.

Reliable family of four requires furnished home July 1 - Sept. 1. South side preferred, loc. 323, phone Eldon Fowler, 439-3437.

HOUSES FOR SALE

Before July 1, Windsor Park, 9110 - 116 Street, three bedroom, stove and refrigerator, \$24,000. Phone: home 439-5766; office 539 or 270

Four bedroom semi. Two bathrooms. Close to campus (Belgravia), good condition. 11562 - 80 Ave. Call local 224.

Semi-bungalow, three bedrooms, one and a half baths, living room, separate dining room, kitchen, double garage, Belgravia, close to University, schools and shopping. Contact L. B. Smillie, local 440, or GE9-4356.

FOR SALE

Lakeshore lot at Sandy Lake, West of St. Albert. 0.43 acres - \$325. Dr. Hohn, Physiology, residence phone 439-8354.

Fi-cord 101 lightweight, battery-run tape recorder, with full transcribing set, an item for fieldwork. Steel-age 4-drawer filing cabinet, one drawer with suspension folders. Typewriter, Baby Hermes. Call Saberwal, extension 120, Assiniboia Hall or 434-4078.

next folio deadline
june 15